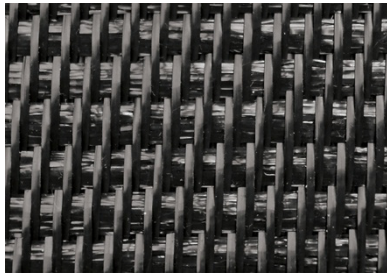




FX[®]-MF and TF High-Performance Geotextiles

REINFORCEMENT | SEPARATION | STABILIZATION | FILTRATION | CONFINEMENT

CARTHAGE FX-MF AND TF HIGH-PERFORMANCE SERIES OF WOVEN GEOTEXTILES



■ SERIES DESCRIPTION

Carthage Mills' FX-MF and TF High-Performance Series of woven polypropylene geotextiles were developed to deliver the higher strengths and long-term performance that cannot be achieved by typical woven slit-film geotextiles.

The FX-MF and TF High-Performance Series of geotextiles are produced of 100% high-tenacity polypropylene yarns. Utilizing a variety of unique weave patterns, they are designed for separation, stabilization and reinforcement, while still providing excellent filtration and drainage in a wide range of applications from moderate to severe site conditions.

Whether the emphasis is on filtration, high tensile properties, and/or long-term performance, these versatile and durable geotextiles can provide quick and easy solu-

tions to other costly alternatives.

■ FEATURES AND BENEFITS

Carthage Mills' FX-MF and TF High-Performance Series of woven polypropylene geotextiles are designed to provide cost-saving solutions in a wide range of applications and varying site conditions, making them one of the most complete and versatile lines of geosynthetics in the industry.

■ SEPARATION and FILTRATION

Unique weave patterns prevent dissimilar materials from intermixing while providing free flowing drain-age assuring long-term functionality of materials.

■ STABILIZATION AND REINFORCEMENT

High tensile modulus at low strains and excellent soil interaction delivers immediate support in moderate to severe conditions.

■ DURABILITY

Superior resistance to installation damage assures long-term performance.

■ HIGH SEAM STRENGTHS

Achieve the high seam strengths that are essential in all closure and confinement applications; and allows for seaming to run

perpendicular to the centerline in highway construction.

■ COST SAVINGS

When low-cost and high performance is combined, savings in *structural materials* and *labor costs* can be as much as 35-40%.

■ APPLICATIONS

The combination of strengths, durability and filtration/flow characteristics make the Carthage FX-MF and TF High-Performance Series of woven geotextiles uniquely versatile in their ability to deliver in:

- Base Course Reinforcement for highways, railways, roads, and parking lots.
- Reinforcement for Mechanically Stabilized Earth (MSE) structures or walls
- Embankments and Dikes on soft soils and foundations
- Voids Bridging in landfills (liner support), highways and runways
- Reinforcement in steepened slopes
- Capping/Closures in landfills and other hazardous waste sites
- Erosion Control; shoreline protection under large riprap
- Containment





■ FX[®]-MF High-Performance Woven Geotextiles

Carthage Mills' FX- MF Series of High-Performance geotextiles are produced from 100% high-tenacity polypropylene yarns. The Carthage [FX[®] High-Performance Series](#) of woven geotextiles, is inert to biological degradation, and resistant to naturally encountered chemicals, alkalis and acids.

Note: The listing below is a sampling of available products in this Series of High-Performance Geotextiles. For more information and/or a complete listing of all the products in this Series, please call or visit our website.

PROPERTY	ASTM TEST	UNIT	FX [®] -270MF	FX [®] -300MF	FX [®] -370MF	FX [®] -375MF	FX [®] -570MF ⁽¹⁾
<input type="checkbox"/> Mechanical/Performance							
Wide Width Tensile Ultimate	D 4595	lbs/ft	2640 x 2460	3600	3600 x 3240	3600 x 3300	4800
Wide Width Elongation @ Ult.		%	NP	NP	NP	NP	NP
Wide Width Tensile @ 2%		lbs/ft	NP	NP	540	NP	960 x 1500
Wide Width Tensile @ 5%			1272 x 1440	1500 x 1560	1500 x 1560	1500 x 1560	2400 x 3000
Wide Width Tensile @ 10%			NP	NP	NP	NP	NP
<input type="checkbox"/> Mechanical/Index							
Grab Tensile Strength	D 4632	lbs	295 x 260	400 x 300	400 x 300	450 x 350	500 x 500
Grab Tensile Elongation		%	13% x 12%	10 x 6	10 x 6	12 x 10	11 x 4
Trapezoidal Tear	D 4533	lbs	110 x 130	135 x 125	135 x 125	150 x 160	180
CBR Puncture	D 6241		1000	1450	1450	1300	2000
<input type="checkbox"/> Endurance							
UV Resistance	D 4355	% @ 500 hrs	80	80	80	80	80
<input type="checkbox"/> Hydraulics/Filtration							
Permittivity	D 4491	sec ⁻¹	0.60	0.52	0.90	0.8	0.50
Water Flow Rate		gpm/ft ²	40	40	60	58	35
Apparent Opening Size (AOS) ⁽²⁾	D 4751	US Std Sieve	30	30	30	30	30
<input type="checkbox"/> Physical							
Standard Roll Sizes Packaging Weight	Measured (Typical)	ft yd ²	15 x 300 500	15 x 300 500	15 x 300 500	15 x 300 500	15 x 300 500
		lbs	213	325	290	320	389

NOTES: Mullen Burst Strength ASTM D 3786 is no longer recognized by ASTM D35 on Geosynthetics. Puncture Strength ASTM D 4833 is not recognized by AASHTO M 288 and has been replaced with CBR Puncture ASTM D 6241.

(1) Formerly FX-400MF

(2) Maximum Average Roll Value

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-2023 and are subject to change without notice.

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